BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Roads and Drains at Pyaru bai Road (New Masjid) Bellahalli in Ward No. 05, Byatarayanapura Sub Division.

			Estimate Cost Rs.						2000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in **ordinary soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, **No. 5/ Item No. 2.1 / PWD SR 2014-15**	Cum							
	Desilting of Drains								
	Maseedi Road		2	118.00	0.40	0.25	23.60		
	Cross Road 1		2	46.00	0.40	0.25	9.20		
	Cross Road 2		2	160.00	0.40	0.25	32.00		
	Cross Road 3		2	35.00	0.40	0.25	7.00		
	Berm Cutting								
	Maseedi Road		2	118.00	0.60	0.20	28.32		
	Cross Road 1		2	46.00	0.60	0.20	11.04		
	Cross Road 2		1	160.00	0.60	0.20	19.20		
	Cross Road 3		2	35.00	0.60	0.25	11.39		
							141.75	126.36	**17912.00**
	Basic Rate	117.00							
	Area Weightage @ 8%	9.36							
	Total	**126.36**							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5**	Cum							
	For Concrete Roads		5	7.00	1.80	1.05	66.15		
							66.15	227.88	**15074.00**
	Basic Rate	211.00							
	Area Weightage @ 8%	16.88							
	Total	**227.88**							
3	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	For Road Work		2x2	35.00		1.65	231.00		
			2	105.00		1.65	346.50		
							577.50		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Missing Slabs @ 30%						173.25		
							404.25	50.11	**20258.00**
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	**50.11**							
4	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
				Qty Vide Item No.3			404.25		
							404.25	70.04	**28313.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2014-15**	Sqm							
	For Missing 30%			Missing Slabs			173.25		
							173.25	343.44	**59501.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2013-14**	Cum							
			5	7.00	1.95	0.15	10.24		
							10.24	4290.84	**43927.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
6	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2013-14**	Cum							
			5x2	7.00	0.60	0.45	**18.90**	3549.96	**67094.00**
	Basic Rate	3287.00							
	Area Weightage @ 8%	262.96							
	Total	**3549.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2013-14**	Cum							
			5x2	7.00	0.50	0.45	**15.75**	4227.12	**66577.00**
	Basic Rate	3914.00							
	Area Weightage @ 8%	313.12							
	Total	**4227.12**							
8	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 17/ Item No. 4.34/ PWD SR 2013-14**	Sqm							
	For Culvert		5	7.00	0.60		21.00		
	Sides		2x5	7.00		0.23	16.10		
			2x5	1.65		0.23	3.80		
							40.90	244.08	**9982.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
9	KSRB 4-1.7 : Providing and laying in position **plain cement concrete of mix M10 with OPC cement @ 220 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 13/ Item No. 4.7/ PWD SR 2013-14**	Cum							
			5x2	7.00	0.50	0.10	3.50		
			5	7.00	0.60	0.10	2.10		
							5.60	4737.96	**26533.00**
	Basic Rate	4387.00							
	Area Weightage @ 8%	350.96							
	Total	**4737.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2013-14**	Cum							
			5	7.00	1.65	0.23	13.28		
							13.28	5639.76	**74910.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.1 / PWD SR 2013-14**	Tonne							
	100 Kg/Cum		1.00	13.28			13.28		
							13.28	7380.72	**98034.00**
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							
	Total	**7380.72**							
12	KSRB 15.1.3: Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 122 / Item No. 15.1 / PWD SR 2013-14**	Sqm							
			5x2	7.00		0.50	35.00		
							35.00	79.92	**2797.00**
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	**79.92**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No.. 170 / Item No. 20.18 / PWD SR 2013-14**	Cum							
	Maseedi Road		1	118.00	5.80	0.20	136.10		
	Cross Road 1		1	46.00	5.00	0.20	46.00		
	Cross Road 2		1	160.00	4.20	0.20	134.40		
	Cross Road 3		1	35.00	4.50	0.20	31.50		
							348.00	1121.04	**390122.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
14	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5, **No. 175 / Item No. 21.4 / PWD SR 2013-14**	Sqm							
	Maseedi Road		1	118.00	5.80		684.40		
	Cross Road 1		1	46.00	5.00		230.00		
	Cross Road 2		1	160.00	4.20		672.00		
	Cross Road 3		1	35.00	4.50		153.60		
							1740.00	100.60	**175047.00**
	Basic Rate	93.15							
	Area Weightage @ 8%	7.45							
	Total	**100.60**							
15	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **Page No. 174 / Item No. 21.20 / PWD SR 2013-14**	Cum							
	Maseedi Road		1	118.00	5.80	0.025	17.01		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	105.00	6.00	0.025	15.75		
			1	115.00	6.00	0.025	17.25		
							43.50	9631.44	**418968.00**
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	**9631.44**							
17	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm	2X2	44.00	0.90		158.40		
							158.40	1427.15	**226061.00**
	Data Rate	**1427.15**							
18	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum	Qty. Vide Item No. 1+2				**207.90**		
							207.90	67.32	**13996.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
19	For 1% Third Party Charges								**20000.00**
20	KRIDL Charges and Labour Cess 11%								**220000.00**
21	Miscesallaneous Charges	L/S							**4894.00**
								Total	**2000000.00**

Technical Sanction for Rs. 20.00 Lakhs only
Rupees Twenty Lakhs Only
P-2654
EE/55/13-14. 28/09/13
AE/JE
EE (BTP.Div.)

(Rupees Twenty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2013-14
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
KRIDL

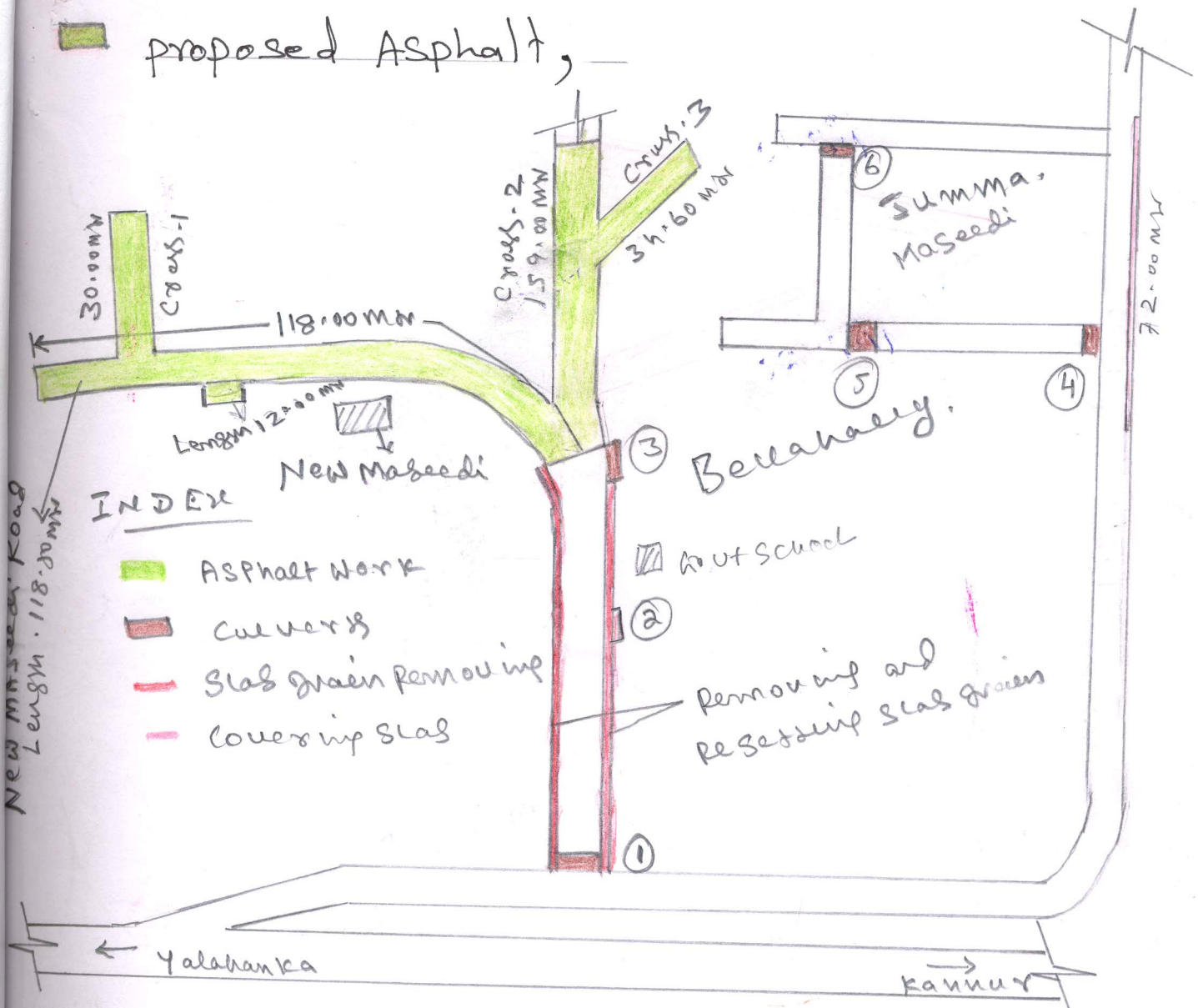
Assistant Engineer
Ward No. 05(Jakkur)

Techinical Manager
KRIDL

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

proposed Asphalt,



SKETCH SHOWING:- Improvements to Roads and Drains at Pyare Bai Road (New Masjid) Bellahalli in Ward No-05 Byatarayana Pura Subdivision Yelahanka Zone

B.B.M.P.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24